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2 **Target tracking in open world scenes using motion cues and target dynamics**
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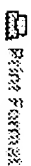
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Salonen, J.;
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Meunier, J.; Sehboub, Z.; Bertrand, M.; Lesperance, J.;
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11   **Design of MPEG-2 video test bitstreams**

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14 **Moving target detection in foliage using along track monopulse synthetic aperture radar imaging**
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Chang-Bum Lee; Rae-Hong Park;
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Ross Brown, Binh Pham, Anthony Maeder
February 2003 **Proceedings of the 1st international conference on Computer graphics and interactive techniques in Austalasia and South East Asia**

Full text available: 📄 pdf(429.09 KB)

Additional Information: full citation, abstract, references, index terms

Present ray tracing algorithms are computationally intensive, requiring hours of computing time for complex scenes. Our previous work has dealt with the development of an overall approach to the application of visual attention to progressive and adaptive ray-tracing techniques. The approach facilitates large computational savings by modulating the supersampling rates in an image by the visual importance of the region being rendered.This paper extends the approach by incorporating temporal change ...

Keywords: animation techniques, image synthesis, motion importance

2 Projection detecting filter for video cut detection
Kiyotaka Otsuji, Yoshinobu Tonomura
September 1993 **Proceedings of the first ACM international conference on Multimedia**

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Additional Information: full citation, references, citings, index terms

3 New enhancements to cut, fade, and dissolve detection processes in video segmentation

Ba Tu Truong, Chitra Dorai, Svetha Venkatesh
October 2000 **Proceedings of the eighth ACM international conference on Multimedia**

Full text available: 📄 pdf(733.18 KB)   Additional Information: full citation, abstract, references, index terms

We present improved algorithms for cut, fade, and dissolve detection which are fundamental steps in digital video analysis. In particular, we propose a new adaptive threshold determination method that is shown to reduce artifacts created by noise and motion in scene cut detection. We also describe new two-step algorithms for fade and dissolve detection, and introduce a method for eliminating false positives from a list of detected candidate transitions. In our detailed study of these gradual …

4 **Computational Approaches to Image Understanding**
Michael Brady
January 1982 **ACM Computing Surveys (CSUR)**, Volume 14 Issue 1

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5 **On motion and noise detection in digital video**
A. Angelopoulos, E. A. Yfantis, A. Popovich, T. Lazarakis
March 2001 **Proceedings of the 2001 ACM symposium on Applied computing**

Full text available: 📄 pdf(219.53 KB)   Additional Information: full citation, references, index terms

Keywords: motion compensation, motion detection, noise detection

6 **A feature-based algorithm for detecting and classifying scene breaks**
Ramin Zabih, Justin Miller, Kevin Mai
January 1995 **Proceedings of the third ACM international conference on Multimedia**

Full text available: 📄 html(58.14 KB)   Additional Information: full citation, citings, index terms

Keywords: content-based indexing and retrieval, video processing

7 **A survey of image registration techniques**
Lisa Gottesfeld Brown
December 1992 **ACM Computing Surveys (CSUR)**, Volume 24 Issue 4

8 **Surveillance invariance in motion analysis of videos**

Cen Rao, Mubarak Shah, Tanveer Syeda-Mahmood

November 2003 **Proceedings of the eleventh ACM international conference on Multimedia**

Full text available: pdf(539.14 KB)   Additional Information: full citation, abstract, references, index terms

In this paper, we propose an approach that retrieves motion of objects from the videos based on the dynamic time warping of view invariant characteristics. The motion is represented as a sequence of dynamic instants and intervals, which are automatically computed using the spatiotemporal curvature of the trajectory of moving object in the videos. Dynamic Time Warping (DTW) method matches trajectories using a view invariant similarity measure. Our system is able to incrementally learn different a ...

Keywords: human actions, learning, spatiotemporal curvature, view-invariant action representation, view-invariant dynamic time warping, view-invariant measure

9 **Motion recovery for video content classification**

Nevenka Dimitrova, Forouzan Golshani

October 1995 **ACM Transactions on Information Systems (TOIS)**, Volume 13 Issue 4

Full text available: pdf(2.74 MB)   Additional Information: full citation, abstract, references, citings, index terms

Like other types of digital information, video sequences must be classified based on the semantics of their contents. A more-precise and completer extraction of semantic information will result in a more-effective classification. The most-discernible difference between still images and moving pictures stems from movements and variations. Thus, to go from the realm of still-image repositories to video databases, we must be able to deal with motion. Particularly, we need the ability to classi ...

Keywords: MPEG compressed video analysis, content-based retrieval of video, motion recovery, video databases, video retrieval

Full text available: pdf(5.20 MB)   Additional Information: full citation, abstract, references, citings, index terms, review

Registration is a fundamental task in image processing used to match two or more pictures taken, for example, at different times, from different sensors, or from different viewpoints. Virtually all large systems which evaluate images require the registration of images, or a closely related operation, as an intermediate step. Specific examples of systems where image registration is a significant component include matching a target with a real-time image of a scene for target recognition, mon ...

Keywords: image registration, image warping, rectification, template matching